



# MU-3M "KOLIBER"

MINIATURIZED NIGHT VISION MONOCULAR

Miniaturized Night Vision Monocular MU-3M is an advanced passive night vision device. It is characterized by compact and light-weight design, robustness and reliability in the field conditions as well as excellent detection, recognition and identification parameters.



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Tax Identification Number (NIP) 525-000-08-25, Polish Business Registry Number (REGON) 010743638.

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For more than 40 years, PCO S.A. has been providing the military and other uniformed services with high-tech optoelectronic solutions. Today PCO S.A. offers the cutting edge night vision and thermal imaging products to armed forces and other specialized users worldwide. PCO S.A. provides also necessary support, training, and maintenance for our products to maximize customer benefits and usability.

Miniaturized Night Vision Monocular MU-3M is a self-contained, versatile passive night vision device built on the European state-of-the-art single 16 mm INTENS Image Intensifier Tube. It provides an excellent multi-role performance in all theatres of operations, from severe desert conditions to tropical jungle. It can be hand-held, head or helmet mounted, or installed on a MIL-STD-1913 weapon rail next to an optical sight, such as for example PCO S.A.'s day optical or collimator sight, enabling the use of a standard day sight in a low-light conditions. It features compact and light-weight single-battery configuration.

What differs the MU-3M from many competitors is the weight to robustness ratio. The design has been extensively tested by both users and the research institutes. It combines the latest solutions in night vision technology and the highest quality materials. The extraordinary reliability is ensured by rigorous quality control of every single monocular produced by PCO S.A. The operational advantages of the MU-3M has been already proven in actual battlefield situations.

## FEATURES AND BENEFITS

### Performance

- Based on the 16 mm INTENS Image Intensifier Tube with high FOM and excellent detection, recognition and identification (DRI) parameters
- Available with green phosphor (P43) or high contrast white phosphor (P45 - ONYX) image
- Auto-gating (ATG) for consistent high resolution in dynamic and urban light conditions
- Equipped with automatic gain control (AGC)
- High reliability under the harshest operating conditions (Military standard)

### Functional

- Multifunctional: Handheld observation device, head-mounted or helmet-mounted single-eye monocular or stereoscopic goggles for hands free operations, or weapon mounted with Picatinny rail.
- Submersible up to 10 meters
- Compatible with wide selection of the most popular combat helmets
- Built-in 2-power level IR illuminator
- IR on/off and low battery indicator in the monocular's filed-of-view
- Over 40 hours of continuous operation

### Design

- Robust, reliable and compliant with full military specification
- Compact and ergonomic design with modern aspherical optics
- One of the lightest monoculars of only 285 grams with the highly durable aluminum alloy casing
- New on/off and IR switch preventing accidental activation
- Optional adapter for clip-on thermal imager for fused night vision

### Available accessories

- Head harness and helmet mount for different types of helmets
- Flip-up system with rotary arm for left/right eye observation
- New more ergonomic binocular bridge
- Weapon adapter for Picatinny rail MIL-STD-1913
- Adapter for clip-on thermal imager
- 3X or 5X magnifying attachments for long-range observation
- Soft carrying case and hard transportation case
- Battery charger

### Key parameters



Resolution	$\geq 1,25$ lp/mrad
Magnification	$1X \pm 0.03$
Field of View	$40^\circ \pm 2^\circ$
Focus range	25 cm to infinity
Eye Relief	25 mm
Operating Temperature	-35°C to +50°C
Storage Temperature	-40°C to +65°C
Weight	285 grams (including battery, eyecup and objective cover)
Dimensions	105 mm x 70 mm x 41 mm
Battery life	$\geq 40$ h hours at 20°C with Alkaline battery
Type of batteries	1 x AA (alkaline or lithium or rechargeable) or 1 x CR123



## More Information :

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